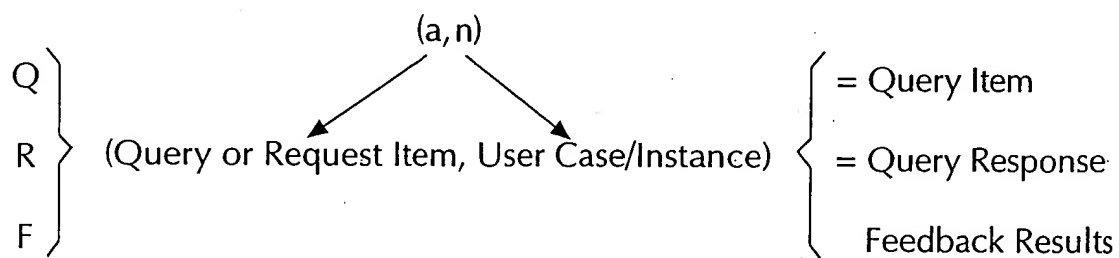
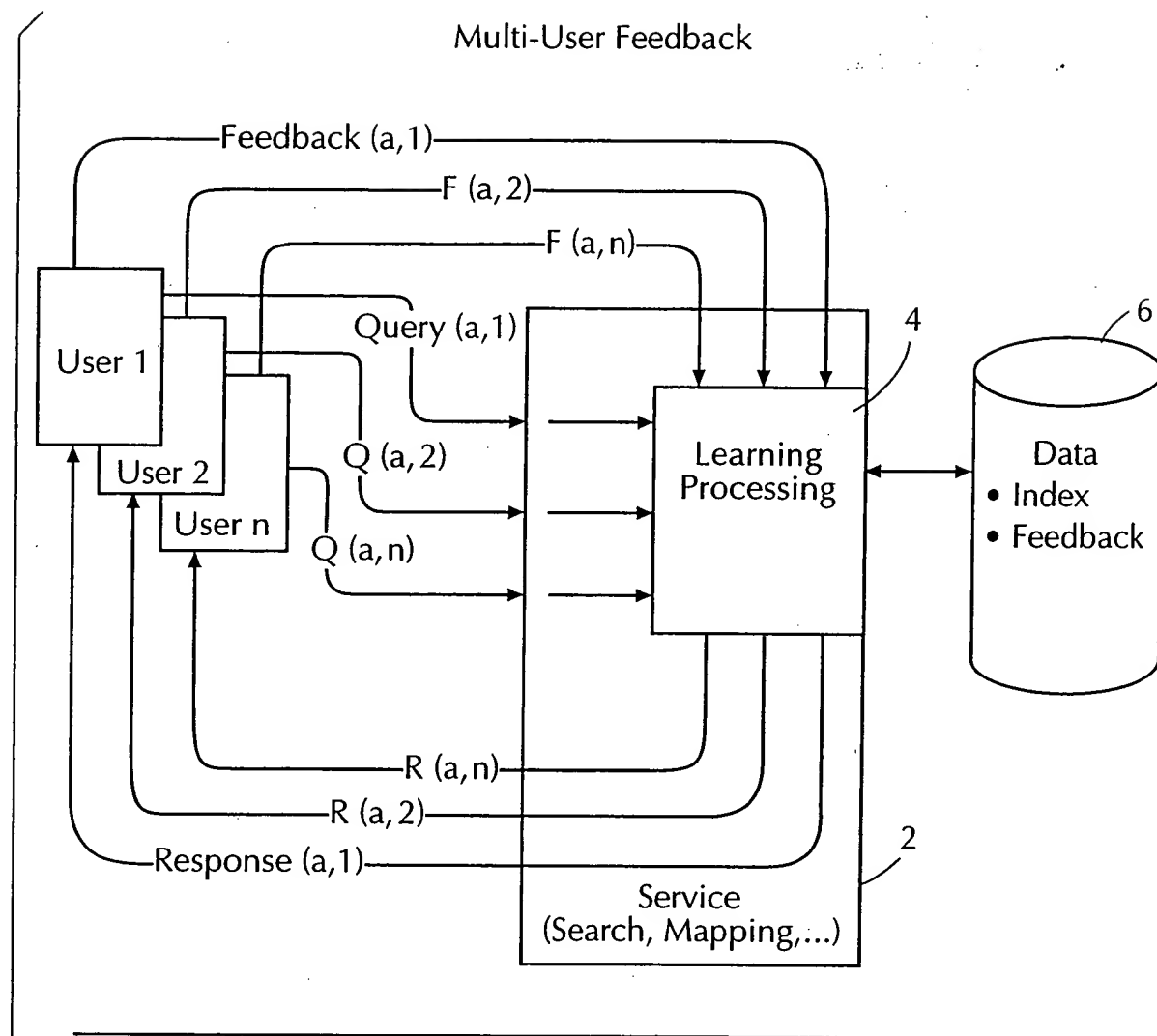
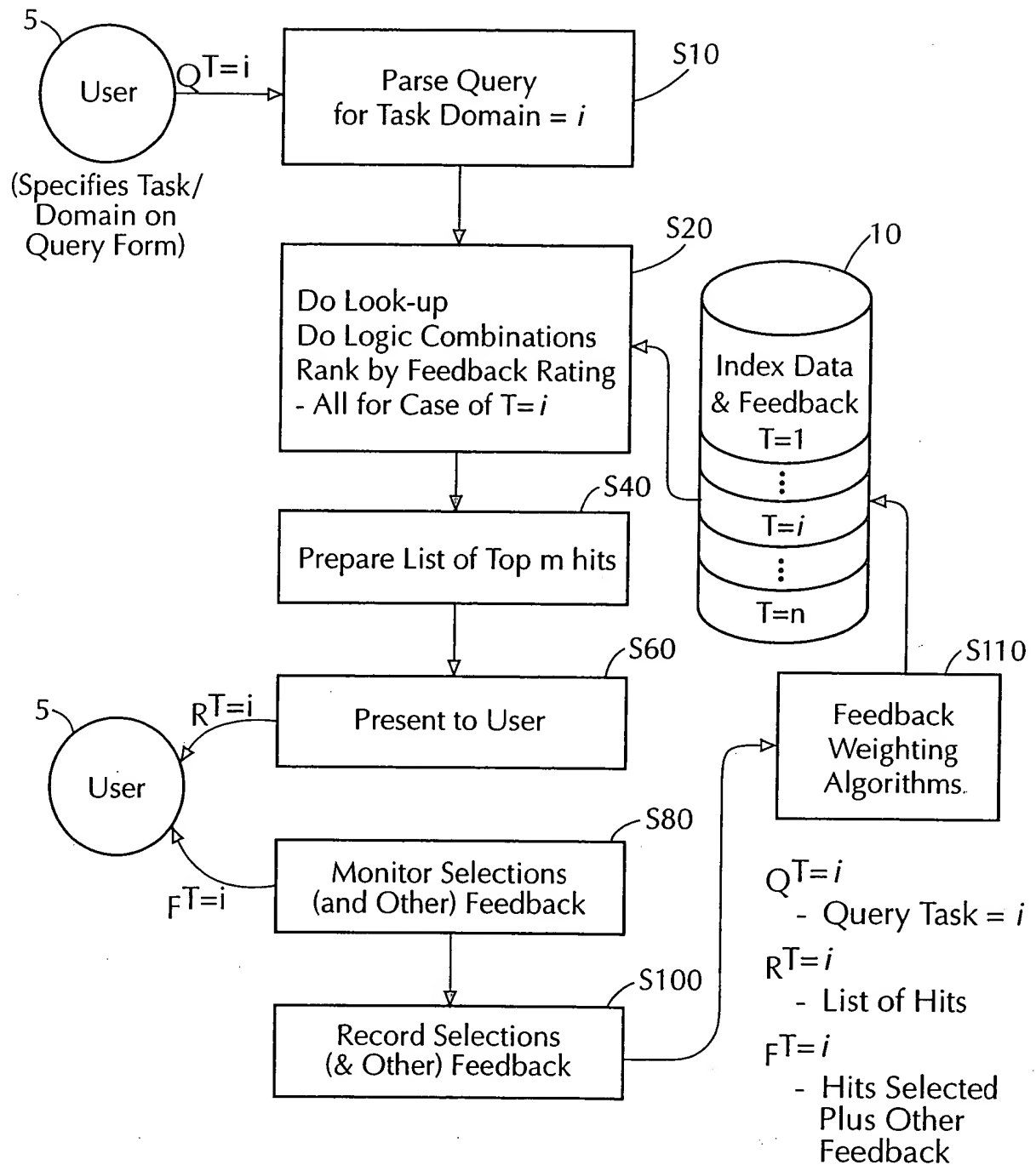


FIG. 1A



**FIG. 1B**

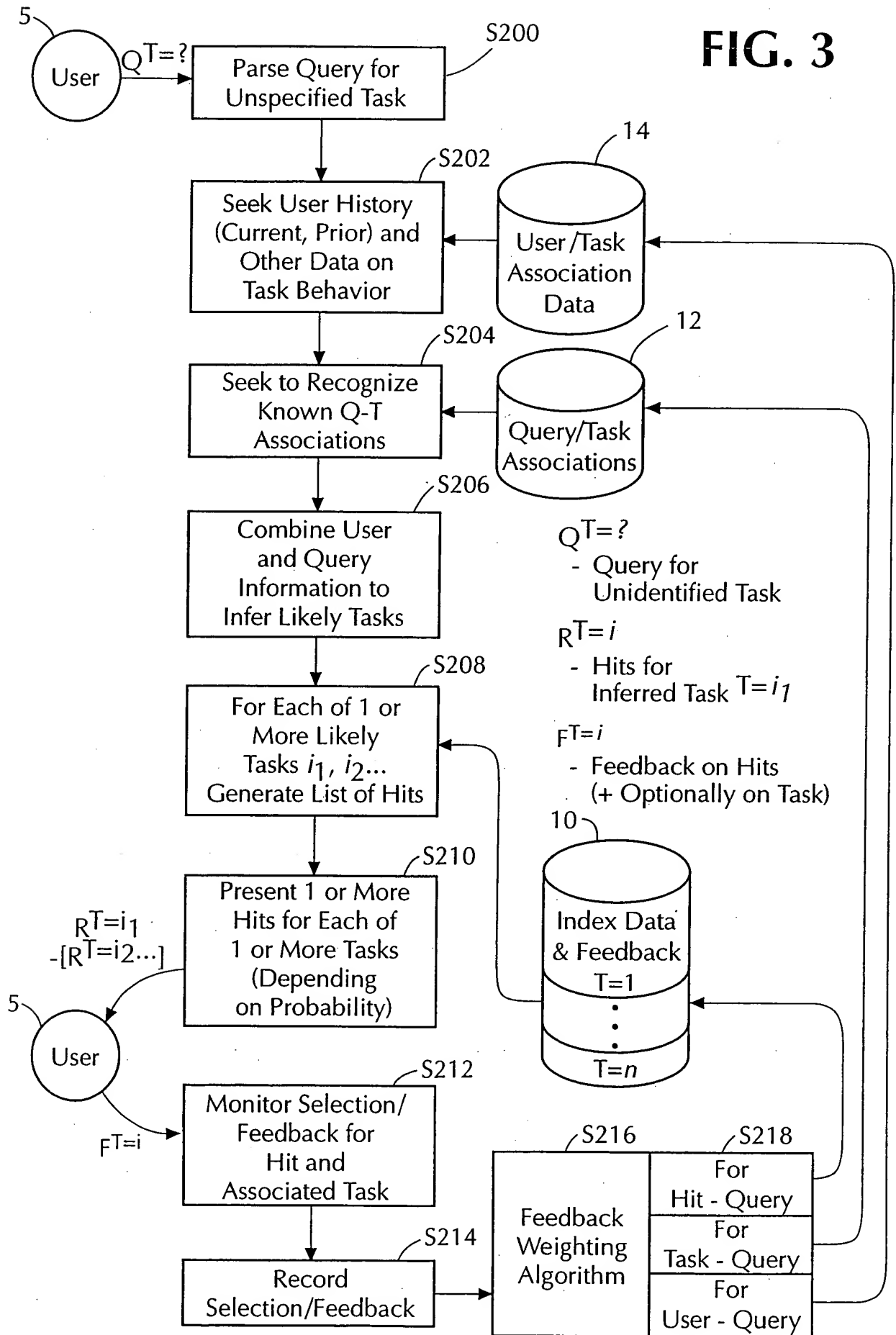
# Case 1 - Ask User What Task



\*o Use semantics information and vocabulary to define tasks.  
- Match task specifications in terms of semantics/vocabularies.

\*o Segment data by task as feedback is obtained.  
- Start with all data at low probability setting, then adjust as feedback is obtained.

# FIG. 3



**FIG. 4**

Index Sample - Task/Domain

Tasks T=	Q's Q (a)	Compound	Pass Targets	Raw Score	Exp. Avail	Probability (Task/Domain)
1	Single Element					
1	Q (a)	0	T1	Sa1T1	Ea1T1	Pa1T1
1	Q (b)	0	T2			
	Compound		⋮			
1	Q (c)	1				
2	Single					
2	Q (a)	0				
	Q (d)	0				
	Compound					
	Q (e)	1				
⋮ n						
X	Single					
X	Q (a)	0	T1	SaxT1	EaxT1	PaxT1
X	Q (f)	0	T2			
	Compound		⋮			
	Q (g)	1				
X <sub>1</sub>	Q (a)	0	T1	Sax <sub>1</sub> T1	Eax <sub>1</sub> T1	Pax <sub>1</sub> T1
X <sub>1</sub>	Q (b)	0	T2			
X <sub>1</sub>	Q (c)	1	⋮			
X <sub>2</sub>	Q (a)	0				

Known Tasks

Unknown Tasks

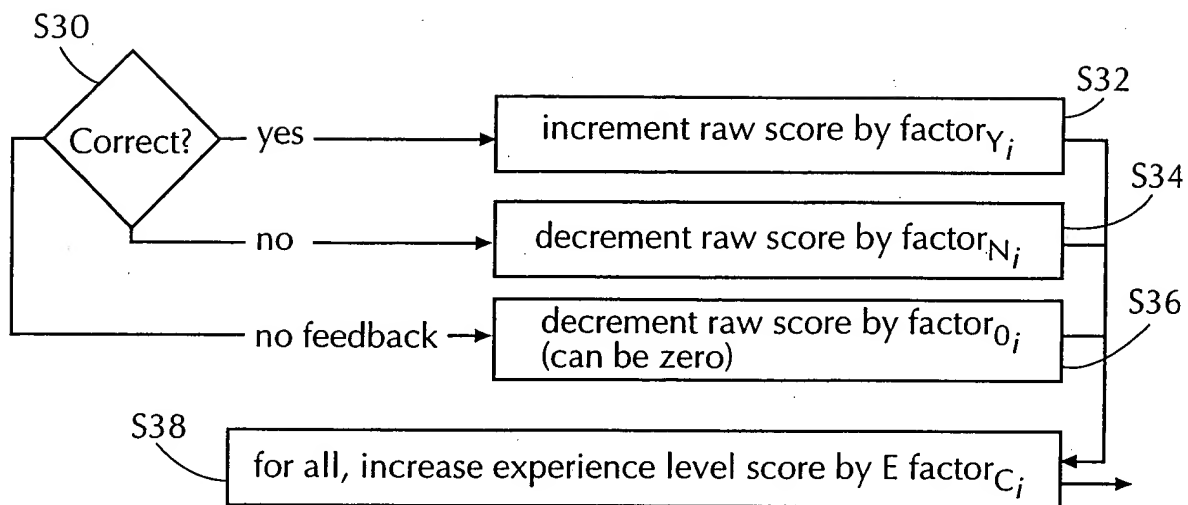


FIG. 5A

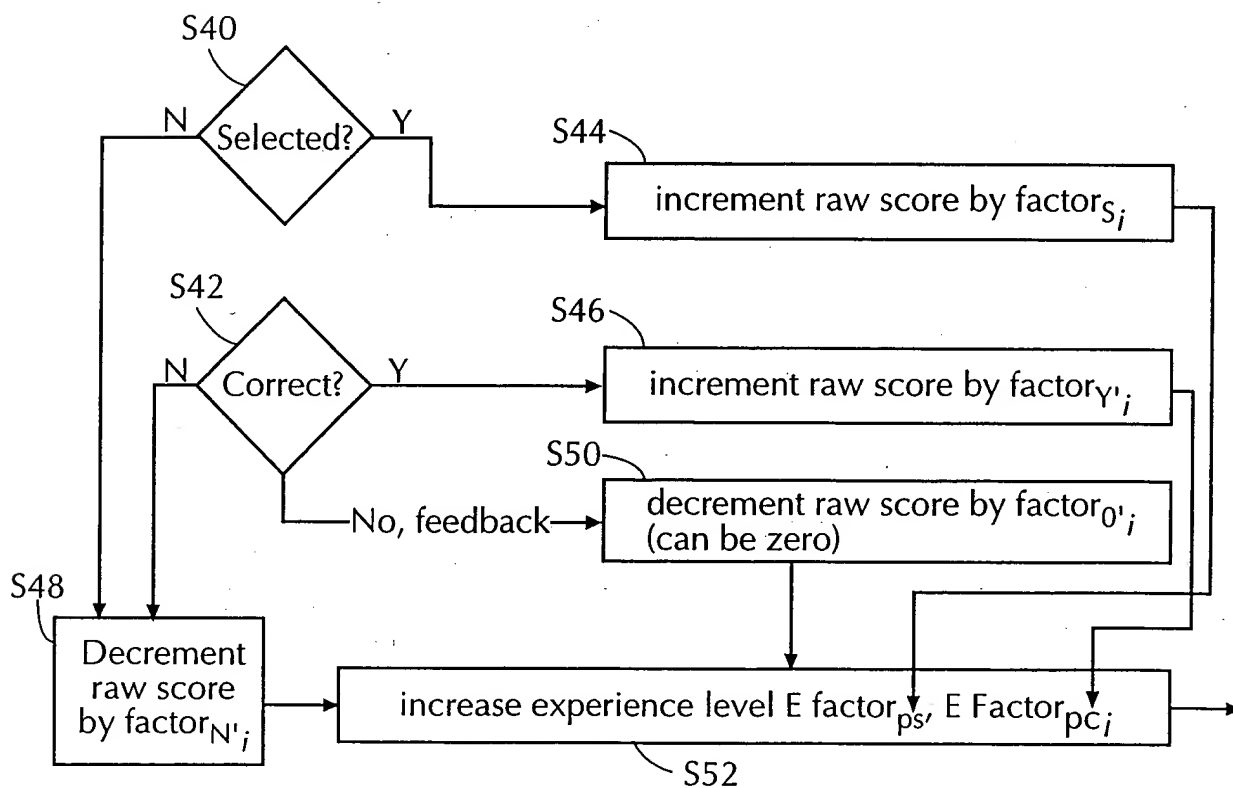


FIG. 5B